

CHRELASHVILI, N.V.

Experimental study of fixated set in animals. Eksp.issl.po psikhol.ust.
2:267-284 '63. (MIRA 16:12)

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CHERASHVILI, V.I.

Experimental study of a fixated set created within the sphere of
the statical-kinesthetical modality in lower mammals. Trudy Inst.
psikhol. AN Gruz.SSR 14:195-216 '63.

(MIRA 18:4)

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Заг. 1943. 29.3.
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Владимировна. Изучение реакции
образования гидроксидов изотопов
металлов при помощи методов физико-
химического анализа. 1953. 146 с. 41
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Заг. 1954. 23.1.
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Огли. Определение углеводородов в
г. Баму и его районах. 1938.
Заг. 1938. 20.3.
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дович. Взаимосвязь формы вы-
ражения констант масла и явров. 1937.
Заг. 1938. 29.1.
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Заг. 1939. 23.5.
869. Резанкова Софья Бори-
совна. Пропорции аргентского мас-
ла и методом определения протектиности
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Заг. 1947. 18.3.
870. Хусеинидзе Александр
Нестерович. Получение двух ос-
ложившихся соединений изотопов
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ура). Заг. 1940. 27.9.
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сандровна. К вопросу об определении ма-
сала количества металлов и бромидов.
1937. 75 с. 17 таб. Заг. ТТУ,
1941 и 1942 гг.).
Заг. 1939. 31.12.
872. Цеццалдзе Акакия Пав-
ловна. Синтез гетероциклических веществ
из кетонов.
Заг. 1948. 15.11.
873. Цеццалдзе Теа Владим-
ировна. К вопросу об устойчивости
алкоустебных, индуктивных металличес-
ким диспергированным синера. 1945.
132 с. 22 таб. (Тр. ТТУ, т. 33, 1949).
Заг. 1945. 27.12.
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колавна. К вопросу о кинетике
химической реакции катализатора и ма-
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Заг. 1938. 14.5.
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бные металлические. Эксперименталь-
ное исследование. 1939—1910. [1]. 108 с.
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Заг. 1940. 29.4.
876. Эрасташвили Дмитрий Ио-
сифович. Влияние излучения на ак-
тивность катализатора. 1937. 68 с.
илл. (Ист. химии ГИАН СССР).
Заг. 1937. 7.2

Dissertation for degree of

Candidate Chemical Sciences

Def. at
Public State

increased the I in H100. However, this was
worse for H100.000.

BODNAR, L.; CHREN, D.; STEIN, A., inz.

Standardization of the design and assembly of automatic block signals.
Zel dop tech 10 no. 1:6-10. '62

CHRISTOV, L.M., kandidat ekonomicheskikh nauk.

Effectiveness of specialization of shipbuilding enterprises.
Sudostroenie 23 no.1:50-53 Ja '57. (MIRA 10:10)
(Shipbuilding)

CHRISTOV, Ph.

Experiment for changing the envelope form of vowels. Dokl.
Bolg. akad. nauk 17 no.4:373-375 '64.

1. Submitted by Corresponding Member E. Djakov.

CHRISTOV, S. G.

Quantum-mechanical establishment of the Tafel equations. ~~Stefan G. Christov~~ (Chem. Tech. Inst. Sofia, Bulgaria). *Z. physik. Chem.* (Leipzig) 212, 40-54 (1959). By aid of Wigner's correction formula (*C.A.* 26, 4236; 27, 221) it is shown that Tafel's equation holds at any potential threshold under certain suppositions if the quantum effects in the ion transport from the soln. to the metal or vice versa are relatively small. Phenomenon in which the tunnel effect is of importance, e.g. in the electrolytic formation of H and D, are discussed also.

Friedrich Epstein

S/081/62/000/005/009/112
B158/B110

AUTHORS: Rajčeva, S., Christov, S. G.

TITLE: Polarization curves for evolution of hydrogen on gallium

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 5, 1962, 74, abstract
5B498 (Dokl. Bolg. AN, v. 14, no. 2, 1961, 183 - 186)

TEXT: Hydrogen overvoltage (η) on solid and liquid Ga is measured in 0.1, 0.01, and 0.001 N HCl at $i = 10^{-6}$ - 10^{-3} a/cm² and temperatures of 10-65°. η does not depend on pH. On solid Ga η is greater and the coefficient b of the Tafel equation smaller than on liquid Ga (at 24 and 35° b is 0.120 and 0.093 v, respectively). For solid Ga, the relationship (η , log i) is linear; however, at small values of i , η on liquid Ga is only slightly dependent on i . This is connected with autodissolution of liquid Ga at increased temperatures. [Abstracter's note: Complete translation.] ✓

Card 1/1

ACCESSION NR: AP4041213

0/0030/64/006/001/0055/0071

AUTHOR: Christov, S. G.

TITLE: Relation between thermionic emission constants of metallic paste cathodes

SOURCE: Physica status solidi, v. 6, no. 1, 1964, 55-71

TOPIC TAGS: thermionic emission constant, paste cathode, metallic cathode, Richardson constant, potential barrier, potential energy, electron energy, adatom, cathode contamination, surface impurity

ABSTRACT: As there is no quantitative, purely theoretical derivation for the relation $\log A' = a + b \chi'$, where A' and χ' are Richardson's matter constants and a and b are constants, an attempt is made to find the derivation from two well-known hypotheses proposed as a qualitative explanation of the relation. The first is that the true work function χ depends on both temperature and surface contamination; the second is that the mean transfer coefficient $\bar{\alpha}$ of the potential barrier varies markedly with the quantity of adsorbed electropositive material. On the basis of current concepts of the state of the adsorbed layers, a simple derivation of this relation from both hypotheses

Card 1/3

ACCESSION NR: AP4041213

is shown to be possible under conditions discussed in the article. If the presence of adatoms on the metal surface is assumed, then the potential electron energy in the barrier layer may reach a maximum. This being the case, the potential barrier will be either greater or smaller than the potential energy maximum at a great distance from the metal surface (10^{-5} to 10^{-4} cm). In addition, asseverates the author, the contradictory experimental data of Becker, Nottingham, et al. make it impossible for the time being to find a clear solution of the potential barrier problem. It is highly unlikely -- although empirical data indicate otherwise -- that the barrier follows the same development with different surface elements. The author shows that with small coating thicknesses ($\bar{\theta} \ll 1$) the form of the potential barrier of all surface areas is on the average not essentially different from that of a pure metal surface ($\bar{\theta} = 0$). With $\bar{\theta} \sim 0.5$, when the inhomogeneity of adatom distribution is greatest, it is at present difficult to decide to what extent the transfer coefficient $\bar{\delta}$ of the barrier layer is dependent on the potential-energy curve and to what extent on the patch areas. Formulas are developed for the relationship between A' and χ' at various $\bar{\theta}$ values. Orig. art. has: 2 figures and 52 equations.

Card 2/3

ACCESSION NR: AP4041213

ASSOCIATION: Institut für physikalische Chemie der Bulgarischen Akademie
der Wissenschaften, Sofia (Physicochemical Institute, Bulgarian Academy of Sci-
ences)

SUBMITTED: 11Mar64

ENCL: 00

SUB CODE: EM, TD

NO REF SOV: 003

OTHER: 025

Card 3/3

composition. Furfural-acetone monomer, FA, strengthened with sulfo-
benzoic acid was used as the binder in the organomineral plastic cement.
Dry quartz sand, free of lime inclusions was the acid resistant filler.
The moisture content of the sand did not exceed 0.5%. The composition of
the concrete was (in weight): monomer FA -- 16%; quartz sand -- 80%;
sulfobenzoic acid -- 4%. The material was tested in melted pork fat and
in grade I technical fat. The results of the investigation of the dura-
bility of plastic-cement indicated that this material can be considered
sufficiently durable for floors where animal fats are found, as in food

ENCL: 00

Subj: 47

CHRISTOVA, E.

CZECHOSLOVAKIA / Chemical Technology. Chemical Products and
Their Application - Pesticides

J-4

Abs Jour : Referat Zhur - Khimiya, No 2, 1958, 5676

Author : Christova Eleonora

Inst : Not given

Title : Report on Tests Conducted by Means of Chemical Agents for
the Purpose of Destroying Caterpillars of the Beet Moth
Phthorimaea ocellatellum Boud in Plantings and to Prevent
Decay in Strogae.

Orig Pub : Listy cukrovarn., 1957, 73, No 6, 128-131

Abstract : Treatment of sound beets with 0.03% E 605 (I) and 0.5%
CuSO₄ (II) has a beneficial effect on storage life of beets
and prevents decay. The solution of I+II was prepared by
immersion of cloth bags containing II in a solution of I.

Card 1/2

CZECHOSLOVAKIA / Chemical Technology. Chemical Products and
Their Application - Pesticides

J-4

Abá Jour : Referat Zhur - Khimiya, No 2, 1958, 5676

Abstract : Use of Ceresan did not yield satisfactory results.
Feed beets are more sensitive to insectofungicides. On
use of the above-stated preparations beet plantings
underwent normal development.

Card 2/2

CHRISTOW, L.

"One Flight of Petrov and Ivanov." P. 566. (SKRZYDLATA POLSKA, Vol. 10, No. 36, Sept. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955 Uncl.

CHRISTOW, Wlodzimierz K.

Determination of the geodetic coordinates of geographical
and ellipsoid heights by observations of artificial satellites.
Geod. i kart. 12 no. 3/4: 167-191 '63.

CHRAISTOW, Włodzimierz

~~Compensation of the continental network of the fundamental~~
triangulation with consideration of Laplace equations and
the conditions of bases and polygons. Geod i kart 12
no. 3/4: 193-201 '63.

CZECHOSLOVAKIA

Ch. CHRISTOZOV, Chair of Psychiatry, Medical School, Sofia, Bulgaria.
[original version not stated].

"Pathophysiological Explanation of Obsession Neurosis."

Prague, Ceskoslovenska Psychiatrie, Vol 58, No 6, 1962; pp 406-410.

Abstract: Clinical data on 23 patients seen 1953-1959; in 21 the higher nervous activity was studied; methodology of investigation is given, with explanation of results based on Pavlovian teachings. Six Soviet references.

1/1

CHRISTOZOV, Ch.

Attempt at pathophysiological interpretation of obsessional neuroses.
Cesk. psychiat. 58 no.6:406-410 D '62.

1. Katedra psychiatrie Vyssiho medicinskeho institutu v Sofii.
(NEUROSES, OBSESSIVE-COMPULSIVE) (ELECTROENCEPHALOGRAPHY)
(CENTRAL NERVOUS SYSTEM DISEASES)

CHRKAVY, Ladislav, inz.; KIANICKA, Robert, inz.

Problems of the assembly of 400 kv power transformers in Czechoslovakia. Energetika Cz 14 no.2:71-72 F'64

1. Elektrovod, n.p., Bratislava.

CHRKAVY, Ladislav, inz.; KIANICKA, Robert, inz.

The 400 disconnecting switches in Czechoslovak switch houses.
Energetika Cz 14 no.7:339-341 JI'64

1. Elektrovod National Enterprise, Bratislava.

TITKOV, N.P.; BOGDANOVA, Z.S.; GALAKTIONOVA, K.N.; KUROVA, M.D.; LAKOTA, B.M.; OZOLIN, L.T.; Prinimali uchastiye: CHIRKOVA, K.I.; ASHITKOV, Yu.R.; SMIRNOV, Ye.A.; PLATUNOV, A.A.; GALICH, V.M.; PATKOVSKAYA, N.A.; VLODAVSKIY, I.Kh.; GORLOVSKIY, S.I.

Outlook for introducing the flotation of ferrous metal ores.
Gor. zhur. no.9:57-62 S '62. (MIRA 15:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy i proyektnyy institut
mekhanicheskoy obrabotki poleznykh iskopayemykh, Leningrad.
(Flotation) (Iron ores) (Manganese ores)

CHRMO, Stefan; PIS, Emil; PREKOP, Stefan; KOLLATIOVA, K., inz.

Socialist pledge of the national enterprise Zapadoslevenske konzervarne a liehovary, Trencin. Kvasny prum 9 no.3:65-66 Mr '63.

1. Predseda Zavodni organizace Komunisticke strany slovenske (for ChrmO). 2. Riaditel zavodu (for Pis). 3. Predseda Zavodniho vyboru Revolucniho odboroveho hnuti (for Prekop). 4. Predsedkyne Zavodni organizace Ceskoslovenskeho svazu mladeze (for Kollatiova).

CHERNOMAZ, I.Sh.

Fight of the proletariat of the Don and Krivoy Rog Basins for
application of the Soviet decree on worker control of industry
(November 1917 to March 1918). Uch.zap.KHGU 62:77-96 '55.

(MIRA 10:7)

(Donets Basin--Works councils).

(Krivoy Rog Basin--Works councils)

CHERNYAVSKIY, Ya.M., inzhener.

Planning the administrative aspects of mass efficiency promotion.
Izobr.v SSSR 2 no.7:30-32 J1 '57. (MLRA 10:7)
(Efficiency, Industrial)

CHROBAK, Eugeniusz

A conference of pipe-making specialists in the B. Bierut
Metallurgical Plant, Czestochowa. Wiad hut 15 no.2:72 F '59.

CZECHOSLOVAKIA / Pharmacology, Toxicology. Hemopoietic Drugs. V

Abs Jour: Ref Zhur-Biol., No 9, 1958, 424261

Author : Chrobak, L.

Inst : Not Given.

Title : Experimental Therapy of Pernicious Anemia with a New Liver Preparation: Extractum Hepatis Spofa.

Orig Pub: Vojenske zdravotn. listy, 1955, 24, No 3, 128-132.

Abstract: The new preparation administered to 7 patients with pernicious anemia caused a sufficiently pronounced reticulocytic reaction and an increase in the Hb and in the erythrocyte count. The preparation is well tolerated. A slight eosinophilia was noted in all patients during its administration.

Card 1/1

Abs Jour: Ref Zhur-Khim., No 23, 1958, 77110.

Author : Chrobak, Ludwik.

Inst :

Title : Dickite from Osielec.

Orig Pub: Arch. mineralog., 1957, 20, No 1-2, 75-83.

Abstract: Dickite found by the author in the region of Osielec (The Carpathians) in fissures of Magur [?] sandstone incompletely filled with calcite is described. It is represented by laminated hexagonal crystals elongated in one direction (length up to 0.3 mm). The chemical composition of purified powder is as follows (in %): SiO_2 - 46.37, Al_2O_3 - 39.94, CaO - 0.24, MgO - 0.03, H_2O + H_2O - 13.92, H_2O - 0.08, total - 100.59. This compo-

Card : 1/2

COUNTRY : Poland
CATEGORY :

E-1

ABS. JOUR. : AZKhim., No. 1959, No. 86023

AUTHOR : Chrobak, L.

INST. :

TITLE : Roentgeno-Spectral Methods of Chemical
Analysis.

ORIG. PUB. : Roczn. gleboznawaze, 1958, 7, Dod., 73-93

ABSTRACT : A presentation of the fundamentals of
roentgeno-spectral methods of analysis.

F. Sudakov.

CARD:

CHROPAK, L.

In the matter of the review of E. Przybora's monograph published in Roczniki Chemii by Dr. Jozef Chojnacki under the title "Roentgenostructural Method of Identification of Minerals and Rocks." p.1433.

ROCZNIKI CHEMII. Warszawa, Poland. Vol. 32, no. 6, 1958.

Monthly List of East European Accessions (MEAI), IC. Vol. 8, No. 9, September 1959
Uncl.

STEFAN, H.; CHROBAK, L.; GROH, J.

Hypofibrinogenemia and fibrinolysis in metastatic cancer of the prostate as a rare cause of unilateral renal hemorrhage. Cas.lek. cesk. 99 no.10:302-306 4 Mr '60.

1. Chirurgická klinika, urologické oddělení, přednosta prof.dr. J. Procházka. I. interní klinika, přednosta prof.dr. J. Rehor - lékařská fakulta KU v Hradci Králové.

(HEMORRHAGIC DIATHESIS etiol.)

(FIBRINOLYSIS etiol.)

(PROSTATE neopl.)

(KIDNEYS dis.)

CHROBAK, Ladislav; HORACEK, Jiri

Malignant lymphogranuloma with unusual cells in the peripheral blood. Cas.lek.cesk.99 no.41:1305-1308 7 0'60.

1. I. interni klinika lekarske fakulty KU v Hradci Kralove,
prednosta prof. MUDr. Jan Rehor -- Patologicko-anatomicky ustav
lekarske fakulty KU v Hradci Kralove, prednosta prof. MUDr.
Antonin Fingerland.

(HODGKIN'S DISEASE blood)

CHROBAK, L.

- [illegible]

GROH, J.; CERNIK, F.; REZAC, V.; CHROBAK, L.; NERAD, V.

Sulfhemoglobinemia. Cas. Lek. Cesk. 101 no.5:151-153 2 F '62.

1. I interni klinika lekarske fakulty KU v Hradci Kralove, prednosta
prof. DrSc. MUDr. Jan Rehor. Klinika interni propedeutiky lekarske
fakulty KU v Hradci Kralove, prednosta doc. MUDr. Frantisek Cernik.

(HEART DEFECTS CONGENITAL diagn)
(ACETOPHENETIDIN toxicol)
(SULFONAMIDES toxicol)

CHROBAK, L.; SLOUKA, V.; MAZAK, J.; CHROBAKOVA, H.

Schilling's test with Co58-labelled vitamin B12 in pernicious anemias.
Cas. Lek. Cesk. 101 no.13:405-410 30 Mr '62.

(COBALT radioactive) (VITAMIN B12 urine)
(ANEMIA PERNICIOUS urine)

CZECHOSLOVAKIA

J. LIBANSKY, L. CHROBAK, D. MRKOS, J. FORTYNOVA, F. CERNIK and O. SEMRAD; Institute of Hematology and Blood Transfusion (ústav hematologie a krevní transfuze) Head (prednosta) Prof Dr J. HOREJSI; Head of Clinical Division (prednosta klinického oddelení) Docent Dr J. LIBANSKY; Second Clinic of Internal Medicine, Medical Faculty Charles University (II. interní klinika lékařské fakulty KU [Karlové University]) Hradec Kralovy, Head Prof Dr J. REHOR; First Internal Medicine Clinic Medical Faculty University JEP [J.E. Purkyne] Brno, Head Prof Dr M. STEJFA; Hospital (nemocnice) Havlíčkův Brod.

"Hemopoietic Disturbances of Medicinal Etiology."

Prague, Casopis Lékarů Českých, Vol 101, No 51, 21 Dec 1962; pp 1494-1503.

Abstract [English summary modified]: Analysis of drug induced blood dyscrasias in 4 Czech cities 1957-1959: 65 cases whereof 7 fatal. Chloramphenicol only incriminated once, but aminopyrine preparations 31 times. Total aminopyrine used in Prague city and region (Kraj) in 1959: 10,835.8 Kg. Analysis by sex, age, (75% women, average age 54) and other criteria; discussion of preventive measures which include

1/2

Prague, Casopis Lékarů Českých, Vol 101, No 51, 21 Dec 1962; pp 1494-1503.

attempts to limit the consumption of some of the most potentially toxic drugs from this standpoint. Fifteen tables, 3 graphs, 6 Czech and 1 Swiss reference.

LIBANSKY, J.; CHROBAK, L.; MRKOS, D.; FORTYNOVA, J.; CERNIK, F.; SENRAD, O.

Blood dyscrasias of drug etiology. Cas. lek. cesk. 101 no.51:1494-1503 21 D '62.

1. Ustav hematologie a krevni transfuze, prednosta prof. dr. J. Horejssi, DrSc., prednosta klinickeho oddeleni doc. dr. J. Libansky, II. interni klinika lekarske fakulty KU v Hradci Kralove, prednosta prof. dr. J. Rehor, DrSc., I. interni klinika lekarske fakulty UJEP v Brne, prednosta prof. dr. M. Stejfa, nemocnice v Havlickove Brode.
(AGRANULOCYTOSIS) (THROMBOPENIA) (HEMATOLOGY)
(DRUG ALLERGY)

CHROBAK, Ladislav

Paroxysmal nocturnal hemoglobinuria. (Contribution to the clinical picture and laboratory diagnosis). Sborn.ved.prac.lek.fak.Karlov. univ. (Hrad.Kral) 6 no.1:Suppl.:49-84 '63.

1. I. interni klinika Lekarske fakulty Karlovy university v Hradci Kralove; prednosta prof. MUDr. F. Cernik.

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CHROBAK, L.

4
CSSR

CHROBAK L., ANTALOVSKA, Z., POLAK, J., KVASNICKA, J.

1st clinic for Internal Medicine, medical faculty of Charles University
(I. interni klinika lekárske fakulty KU) Hradec Kralove; director:
docent Dr. F. Cernik; Stomatological Clinic of the medical faculty of
Charles University (stomatologicka klinika lekárske fakulty KU) Hradec
Kralove, director: Prof. Dr. L. Szam, CSc; Pediatric clinic of the
medical faculty of Charles University (detska klinika lekárske fakulty
KU) Hradec Kralove, director: Prof. Dr. J. Blacha, DSc

Prague, Ceskoslovenska Stomatologie, No 2, 1963, pp 121-126.

"Rare Manifestations of Haemophilia in the Orofacial Area"

SKAUNIC, V.; PETR, R.; CHROBAK, I.

Successful outcome following partial dextrolateral prefrontal lobotomy in ulcerative colitis. Cesk. gastroent. vyz. 17 no.4: 227-230 Je '63.

1. I interni klinika, zast. prednosta doc. dr. Fr. Cernik,
a neurochirurgická klinika, prednosta prof. dr. R. Petr,
lekarske fakulty KU v Hradci Kralove.

(PSYCHOSURGERY) (COLITIS, ULCERATIVE)
(CACHEXIA) (BLOOD PROTEIN DISORDERS)

CHROBAK, Ladislav; POLAK, Jiri; SALAVEC, Miloslav; CERNIK, Frantisek;
ANTALOVSKA, Zora; HNIZDOVA, Dagmar.

Hemophilia in the region of East Bohemia (Coagulation studies).
Sborn. ved. prac. lek. fak. Karlov. Univ. (Hrad. Kral.) 6 no.4:
365-372 *63.

1. I. interni klinika (prednosta: prof. MUDr. F.Cernik); Detska
klinika (prednosta: prof. MUDr. J.Blecha, DrSc.) a Stomatolo-
gicka klinika (prednosta: prof. MUDr. L.Sazama, CSc.).

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POLAK, Jiri; CHROBAK, Ladislav; SALAVEC, Miloslav; CERNIK, Frantisek;
ANTALOVSKA, Zora.

Incidence of hemophilia in the region of East Bohemia. Clinical
manifestations of hemophilia among members of a group. Sborn.
ved. prac. lek. fak. Karlov. Univ. (Hrad. Kral.) 6 no.4:373-383
'63.

Problems of hemophilia from the viewpoint of stomatology.
Ibid.:409-424.

Diagnostic errors and some social viewpoint in hemophilia.
Ibid.:425-434

1. I. interni klinika (prednosta: prof. MUDr. F.Cernik);
Detska klinika (prednosta: prof. MUDr. J.Hlecha, DrSc.) a
Stomatologicka klinika (prednosta: prof. MUDr. L.Sazama, CSc.).

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SALAVEC, Miloslav; CHROBAK, Ladislav; POLAK, Jiri; CERNIK, Frantisek;
PRIBORSKY, Jaromir; ANTALOVSKA, Zora.

Hemophilic arthropathy. Sborn. ved. prac. lek. fak. Karlov.
Univ. (Hrad. Kral.) 6 no.4:385-407 '63.

1. I. interni klinika (prednosta: prof. MUDr. F.Cernik);
Detska klinika (prednosta: prof. MUDr. J.Blecha, DrSc.) a
Stomatologicka klinika (prednosta:prof. MUDr. L.Sazama, CSc.).

CHROBAK, Ladislav; POLAK, Jiri; SALAVEC, Miloslav; CERNIK, Frantisek;
ANTALOVSKA, Zora; HNIZDOVA, Dagmar.

Hemophilia in the region of East Bohemia. (Coagulation studies).
Sborn. ved. prac. lek. fak. Karlov. univ. (Hrad. Kral.) 6 no.4:
365-372 '63.

1. I. interni klinika (prednosta: prof. MUDr. F.Cernik); Detska
klinika (prednosta: prof. MUDr. J.Hlecha, DrSc.) a Stomatologicka
klinika (prednosta: prof. MUDr.L.Sazama, CSc.), Karlova univer-
sita v Hradci Kralove.

SALAVEC, Miloslav; CHROBAK, Ladislav; POLAK, Jiri; CERNIK, Frantisek;
PRIBORSKY, Jaromir; ANTALOVSKA, Zora.

Hemophilic arthropathy. Sborn. ved. prac. lek. fak. Karlov.
univ. (Hrad. Kral.) 6 no.4:384-407 '63

1. I. interni klinika (prednosta: prof. MUDr. F.Cernik);
Detska klinika (prednosta: prof. MUDr. J.Hlecha, DrSc.) a
Stomatologicka klinika (prednosta: prof. MUDr. L. Saxama,
CSc.), Karlova universita v Hradci Kralove.

VACHA, Karel; VORISEK, Vladimir; CHROBAK, Ladislav

Significance of detecting nucleated erythrocytes in the peripheral blood. Sborn. ved. prac. lek. fak. Karlov. Univ. (Hrad. Kral.) 6 no.4:435-442 '63.

1. I. interni klinika; prednosta: prof. MUDr. F.Cernik.

*

POLAK, J.; CHROBAK, L.; SALAVEC, M.; CERNIK, F.; ANTALOVSKA, Z.

Incidence of hemophilia in East Bohemia. Cas. lek.cesk.
103 no. 23:636-638 5 Je '64.

1. Detska klinika lekarske fakulty KU [Karlovy university]
v Hradci Kralove (prednosta: prof. dr. J.Blacha, DrSc);
I. interni klinika lekarske fakulty KU [Karlovy univeristy]
v Hradci Kralove (prednosta: prof. dr. F.Cernik) a Stomatologicka
klinika lekarske fakulty KU [Karlovy university] v Hradci Kralove
(prednosta: prof. dr. L.Sazma, CSc.).

POLAK, Jiri; CHROBAK, Ladislav; SALAVEC, Miloslav; CERNIK, Frantisek;
ANTALOVSKA, Zora.

Incidence of hemophilia in the region of East Bohemia. Clinical
manifestations of hemophilia among members of a group. Sborn.
ved. prac. lek. fak. Karlov. univ. (Hrad.Kral.) 6 no.4:373-383
'63.

Problems of hemophilia from the viewpoint of stomatology.
Ibid.:409-424

Diagnostic errors and some social viewpoints in hemophilia.
Ibid.425-434

1. I. interni klinika (prednosta: prof. MUDr. F.Cernak);
Detska klinika (prednosta: prof. MUDr. J.Elecha, DrSc.) a
Stomatologicka klinika (prednosta: prof. MUDr.L.Sazana, CSc.).

Karlova universita v Hradci Kralove.

RADOCHOVA, Dagmar; SMID, Antonin; CHROBAK, Ladislav; KORINEK, Jan;
PROCHAZKA, Jaroslav, prof. MUDr., DrSc.

A contribution to the examination of anemia in patients after
operations with the use of ~~extracorporeal~~ circulation. Sborn.
ved. prac. lek. fak. Karlov. Univ. 9 no.1:127-132 '64.

1. I. interni klinika (prednosta: prof. MUDr. F.Cernik)
Lekarske fakulty Karlovy university; Ustav hematologie a
krevni transfuze, Lekarske fakulty Karlovy University,
Praha (prednosta: prof. MUDr. J. Horejsi, DrSc.) a Chirur-
gicka klinika (prednosta: prof. MUDr. J. Prochazka, DrSc.).

RADOCHOVA, Dagmar; SMID, Antonin; CHROBAK, Ladislav.

Erythrokinetics in old age with the aid of Cr51 and Fe59. Sborn.
ved. prac. lek. fak. Karlov, Univ. 9 no.1:357-368 '64.

1. I. interni klinika (prednosta: prof. MUDr. F.Cernik) a
Radiobiologicka klinika (prednosta: MUDr. J. Mraz, CSc)
Karlov University v Hradci Kralove.

RADOCHOVA, D.; CHROBAK, L.; SMID, A.; SVANDA, J.

Survival of Cr51-labelled erythrocytes in pernicious anemia
with positive direct Coombs' test. Vnitřní lek. 11 no.1:
37-40 Ja '65

1. I. Vnitřní klinika LFRU v Hradci Kralove (prednosta-
prof. MUDr. Frant. Cernik, VL DVU J.E.Purkyne v Hradci
Kralove).

CHROBAK, Ladislav

Coagulation studies during extracorporeal blood circulation.
Sborn. ved. prac. lek. fak. Karlov. univ.: Suppl. 8 no.1:
53-81 '65.

1. I. interni klinika (prednosta prof. MUDr. F. Cernik).

CHROBAK, Ladislav; HEJNA, Karel; HNIZDOVA, D.

Conservation of platelets in heparin for use in extracorporeal circulation. Sborn. ved. prac. lek. fak. Karlov. Univ. 8 no. 4: 477-484 ' 65.

1. I. Interna klinika (prednosta: prof. MUDr. F. Cernik) a
Fakultni transfuzni stanice (prednosta: prim. MUDr. K. Hejna)
Karlov University v Hradci Kralove.

CHROBAK, Ladislav; CHROBAKOVA, Hana. Technická spolupráce: TACHECI, Olga;
HAVLIGOVA, Jena

Disturbances of hemostasis in patients with congenital and
acquired heart defects. Sborn. ved. prac. lek. fak. Karlov.
Univ. 8 no.2:223-232 '65.

1. I. Interní klinika (prednosta - prof. MUDr. P. Černík)
Lékařské fakulty Karlovy University v Hradci Králové.

CHROBAK, Ladislav; HNIZDOVA, Dagmar

Anticoagulative properties of protamine and Polybrene (hexadimethrine bromide). Sborn. ved. prac. lek. fak. Karlov. Univ. 8 no.5:605-612 '65

1. I. interni klinika (prednosta - prof. MUDr. F. Cernik) v Hradci Kralove.

JINDRICOVA, Jirina; VORTEL, Vladimir; FINGERLAND, Antonin; JINDRAK, Karel;
CHROBAK, Ladislav

Fatal panmyelophthisis degenerated to subacute myeloid leukemia
caused by benzene. Vnitřní lek. 11 no.10:995-999 0 '65.

1. Krajský ústav národního zdraví, oddělení chorob z povolání,
Hradec Králové (prednosta: doc. MUDr. Jirina Jindrichová, CSc.),
Patologicko anatomický ústav lékařské fakulty Karlovy University
v Hradci Králové (prednosta: prof. MUDr. Antonin Fingerland, Dr.Sc.)
a I. vnitřní klinika lékařské fakulty Karlovy University v Hradci
Králové (prednosta: prof. MUDr. František Černík).

S/081/62/000/016/020/043
B168/B186

AUTHOR: Chrobak, Przemysław

TITLE: Use of plastic films as dielectrics in the manufacture
of capacitors

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 16, 1962, 351, abstract
16K148 (Prace Inst. Tele-i radiotechn., v. 5, no. 4, 1961,
61-67 [Pol.; summaries in Engl., Russian, French, and
German])

TEXT: Plastics in the form of foil, lacquer (as coating for metal foil)
or filler of porous material, e.g. paper, can be used as interlaminations
for dielectrics. 9 references. [Abstracter's note: Complete
translation.]

Card 1/1

CHROBAK, Przemyslaw, mgr inz.

Dielectric layers for metal-lacquer capacitors. Prace inst
teletechn 7 no.4:90-93 '63.

NEHRAD, Vladimir; SKAUNIC, Vladimir; CHROBAKOVA, Hana

Relation of prothrombin complex factors to cholesterol level in
the blood. Cas. lek. cesk. 99 no. 17: 532-534 22 Ap '60.

1. I. interni klinika v Hradci Kralove, prednosta prof. MUDr.
Jan Rehor.

(CHOLESTEROL blood)
(PROTHROMBIN)

NERAD, V.; BARTOS, V.; CHROBAKOVA, H.; za technicke spoluprace HNIZDOVE, D.

A contribution to the problem of hemorrhage in liver diseases. Cesk.
gastroent. vyz. 15 no.1:49-53 F '61.

1. I interni klinika lekarske fakulty KU v Hradci Kralove, prednosta
prof. MUDr. Jan Rehor.
(LIVER DISEASES complications) (HEMORRHAGE etiology)

CHROBAK, L.; SLOUKA, V.; MAZAK, J.; CHROBAKOVA, H.

Schilling's test with Co58-labelled vitamin B12 in pernicious anemias.
Cas. Lek. Cesk. 101 no.13:405-410 30 Mr '62.

(COBALT radioactive) (VITAMIN B12 urine)
(ANEMIA PERNICIOUS urine)

CHROBAK, Ladislav; CHROBAKOVÁ, Hana. Technická spolupráce: TACHEČI, Olga;
HAVLICOVÁ, Jena

Disturbances of hemostasis in patients with congenital and
acquired heart defects. Sborn. věd. prac. lek. fak. Karlov.
Univ. 8 no.2:223-232 '65.

I. I. Interní klinika (prednosta - prof. MUDr. P. Černík)
Lékařské fakulty Karlovy University v Hradci Králové.

CHROBAK, Ladislav; CHROBAKOVA, Hana. Techn. spoluprace: TACHECI, Olga

Disturbances of hemostasis in patients with congenital and
acquired heart defects. Shorn. ved. prac. lek. fak. Karlov.
Univ. 8 no.2:223-232 '65.

CHRONOCZEK, EMIL

Odmianoznawstwo warzywne. (Wyd. 1.) Warszawa, Panstwowe Wydawn. Rolnicze i
Lesne, 1953. 298 p. (Knowledge of vegetable varieties. 1st ed.)
DA Not in DLC

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

Use of micro-elements in growing certain vegetables on meek
soils. A. Maksimow and E. Chroboczek (*Roest. Nauk Rol.*, 1954,
68, A, 433-479).--The effects of applications of B, Cu, Mn, and Fe
on the yield and trace-element content of cabbage, cauliflower,
potatoes, beetroots, spinach, carrot, and onions are examined in
pot and field experiments extending over seven years.
A. G. POLLARD.

POLAND/Cultivated Plants - Potatoes. Vegetables. Melons.

M-3

Abs Jour : Ref Zhur - Biol., No 7, 1958, 29816

Author : Chroboczek, E., Woyke, H.

Inst :

Title : The Effect of the Frequency of Harvesting on the Quantity
and Quality of the Yield of Several Canning Cucumber
Varieties.

Orig Pub : Roczn. nauk rolniczych, 1956, A73, No 3, 367-389 (pol'sk.;
rez. russk., angl.).

Abstract : No abstract.

Card 1/1

- 21 -

CHROBÓCZEK, E.

Experimental processing and refrigerating station of the Vegetable
Plant in Skierniewice. Przem spoz 15 no.10:62-63 '61.

CHROBOCZEK, Emil (Skierniewice)

Prospects for the development of the freezing of garden products in Poland and problems connected with vegetable freezing research at the Institute of Cultivation, Fertilization and Soil Science in Skierniewice. Przem spos 15 no.11:35-39 '61.

S/058/63/000/002/055/070
A160/A101

AUTHORS: Chroboczek, Jan, Czachor, Andrzej, Piekoszewski, Jerzy

TITLE: The effect of the chemical treatment and neutron irradiation on the surface recombination rate of the carriers in n-type germanium

PERIODICAL: Referativnyi zhurnal, Fizika, no. 2, 1963, 88, abstract 2E590
("Rept. Inst. badań jądrow. PAN", no. 219/I-B, 1962, 19 pp.,
illust., English; summaries in Polish and Russian)

TEXT: An investigation was carried out of the possibility of using the photomagnetic-electric effect for measuring the rate of the surface recombination of S in n-Ge. It is shown that the effect of a foregoing surface treatment on the magnitude of S is comparatively small in case of a careful chemical surface treatment. A few values of S for various etchants are presented. It was established that a change of S (observed by other authors) due to irradiation of the samples by neutrons, is not connected with an increase of the concentration of the surface recombination centers.

[Abstracter's note: Complete translation]

Card 1/1

CHROŁOK, H., dr.

3 cases of transient bundle branch block. Kardiol. Pol. 8 no.1:
65-69 '65

1. Z Oddziału Wewnętrznego Szpitala im. W. Styczynskiego w
Chorzowie (Ordynator: dr. H. Chrobok).

MAZACOVA, K.; PRIBYL, V.; CHROBOK, J.; KEPKOVA, B.; KRAL, V.; KUNSKY, J.

Geomorphological development of the Tyn nad Vltavou
region. Sbor zem 68 no.4:317-327 '63.

BRINKE, Josef; CHROBOKOVA, Drahomira

Some problems of animal production in the North-Bohemia region.
Sbor zem 68 no.1:43-45 '63.

CHROBOLKA, Jaroslav; PLAMINEK, Josef; VAVRINA, Jaroslav

Classification of production units for the purpose of wage
differentiation of technical engineering workers. Prace mzda
13 no.4:166-172 Ap '65.

1. State Research Institute of Technical Organization of the
Ministry of Consumer Goods Industry, Prague.

CHROBOT, S.

Let us gather funds in cooperatives.

p. 2 (Rolnik Spoldzielca. Vol. 9 (i.e. 10) no. 12, Mar. 1957. Warszaw, Poland)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

CHROBOT, S.

A course for the youth of Sandomierz District. p. 3.
(ROLNIK SPOLDZIELCA. Vol. 9 (i.e.10) no. 16, Apr. 1957, Poland)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 6, June 1957, Uncl.

CHROBOT, S.

To destroy or to consolidate? p. 2.

(Rolnik Spoldzielca, Warszawa, Vol. 9(i. e. 10)no. 18, May 1957.)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 7, July 1957. Uncl.

COUNTRY : CZECHOSLOVAKIA E
CATEGORY : Analytical Chemistry. Analysis of Organic Substances
ABS. JOUR. : RZKhim., No. 1 1960, No. 891
AUTHOR : Cepciansky, I.; Chromcova, L.
INST. : -
TITLE : Determination of Nitrogen in Some Heterocyclic Compounds
ORIG. PUB. : Chem. prumysl, 1959, 9, No 4, 188-190
ABSTRACT : To determine N in benztriazole and its derivatives, a modification of Kjeldahl's method is proposed. In 100 ml of a mixture of 96% H_2SO_4 and 65% H_3PO_4 (3:1 by volume), 1 g of $CuSO_4 \cdot 5H_2O$ is dissolved and, in another 100 ml of the same mixture, 1 g of Se. The solutions are mixed in the cold and the substance is mineralized with the obtained mixture (for 0.1-0.15 g of substance, 15-22 ml of mixture),
CARD: 1/3

COUNTRY : E
"APPROVED FOR RELEASE: 06/12/2000 CIA-RDP86-00513R000509010016-9"

ABS. JOUR. : RZKhim., No. 1 1960, No. 891
AUTHOR :
INST. :
TITLE :
ORIG. PUB. :
ABSTRACT : whereupon N_2 is liberated and the quantity of NH_3 , determined by titration, corresponds to one-third of the over-all N content. It was assumed that 1-phenylbenztriazole first forms N_2 and carbazole, and that the latter undergoes mineralization. Isatin, its 4-chloro-7-methyl and 4-bromo-7-methyl derivatives, 2-phenylcinchoninic acid and carbazole give satisfactory results. Incorrect results were
cont'd

CARD: 2/3

COUNTRY : E
CATEGORY :
ABS. JOUR. : RZKhim., No. 1 1960, No. 891
AUTHOR :
INST. :
TITLE :
ORIG. PUB. :
ABSTRACT : obtained for 2-phenyl-5-bromo-8-methylquino-
cont'd line - 4-carbonic acid.-- N. Turkevich

CARD: 3/3

KOLAR, J.; BABICKY, A.; VRABEC, R.; Technicka spoluprace: CHROMEC, Ch.;
OPPLTOVA, M.; TICHY, Z.

Changes in the bones caused by electric current. Acta univ. carol.
[Med] no.4:537-570 '61.

1. Radiologicka klinika fakulty vseobecneho lekarstvi University
Karlovy, prednosta prof. MUDr. V. Svab Izotopove laboratore Biologic-
keho ustavu CSAV v Praze, reditel akademik I. Malek Klinika plasticke
chirurgie lekarske fakulty hygienicke University Karlovy, prednosta
akademik F. Burian.

(ELECTRICITY) (BONE AND BONES pathol)

CHRONEC, J.

Quality requirements of stone materials for road construction and their specifications in the Czechoslovak standard 721511. p.21.
(Silnice, Vol. 6, No. 4, Apr. 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

CHROMEČ, J.

"Present state of bituminous roadways from the consumer's viewpoint."

p. 12 (Silnice) Vol. 7, no. 1, Jan. 1958.
Prague, Czechoslovakia

SO: Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 4,
April 1958

CHROMEC, M.; BRUCKNER, M.

Origin and solution of the problem of draining heavily watered washed gravel sands. Stavivo 41 no.4:136-138 Ap '63.

1. Tezba sterkopisku, n.p., Olomouc.

: CHROMECEK, R.

CZECHOSLOVAKIA/Fitting Out of Laboratories - Instruments.
Their Theory, Construction, and Use.

H-

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 8741

Author : Pavelka, F., and Chromecek, R.

Inst :

Title : Maintenance of Constant Water Pressure in Laboratory Jet
Suction Pumps.

Orig Pub : Chem. promysl. 1954, 4, No 2, 65-66

Abstract : In order to maintain constant suction in the evacuated system, regardless of variations in the water pressure in the piping system, it is proposed to connect laboratory jet suction pumps (LJP) not directly to the water faucet but to a system consisting of a surge tank of 70 liters capacity and an electrically driven water pump. The pump sends water from the surge tank to the LJP whence it is returned to the reservoir. The temperature of the circulating water gradually increases as

Card 1/2

CZECHOSLOVAKIA/Fitting Out of Laboratories - Instruments.
Their Theory, Construction, and Use.

H-

Abs Jour : Ref Zhur - Khimiya, No 3, 1957, 8741

a result of the heating of the pump. Makeup water is
therefore added to the tank from the water system, the
excess water being allowed to overflow into a drain.

Card 2/2

2 4

~~Trichloroacetyl chloride. John D. Calfee and Thomas A. Wallace, Jr. (to Allied Chemical & Dye Corp.). U.S. 2,738,425, Feb. 29, 1956. A process is described for the prepn. of Cl_3CCOCl (I) which comprises continuously mixing C_2Cl_4 (II) vapor and air (in the absence of elemental Cl) in the proportion of 1 part II to 1-6 parts air and passing the resulting mixt. through a reaction zone exposed to actinic radiation with an exposure time not exceeding 3.3 min. Thus, liquid II was placed in a glass vaporizer vessel equipped with an inlet for II, a capillary tube for the admission of air below the surface of II, and a take-off arm leading to a 3-ft. cylindrical reaction tube 3 in. outside diam. contg. a concentric 1-in. Hg-vapor lamp designed to emit light of about 2800 Å. running the length of the tube, the temp. of II raised to 35°, and air bubbled through the II at a rate of 1.5 l./min. 0.5 hr. with the temp. maintained at 35°. About 1.8 l./min. of II and air were passed through the tube at 500 min., the mixt. exposed for an av. of 2 min. from a total of 8 l. II (41.0 l.) and 44 l. air was obtained 67 g. I and 6 g. unchanged II.~~

~~Acetyl benzoyl peroxide. Richard Choumček and František Jurček. Czech. 85,196. Dec. 1, 1955. Oxidation of mixts. of BzH (I) and Ac_2O (II) in molar ratios of 1:1.5 to 1:5 is catalyzed by addn. of alk.-earth metals of the 2nd or 3rd group, which stabilize the primary labile intermediary product $(\text{PhCHO})_2\text{O}$, toward formation of BzOH . Air bubbled through 10.5 g. mole, II 1.25 g. moles, and CaCO_3 25 g. at a rate 70-100 l./hr. 3 hrs. at 30-45° in daylight, the mixt. poured into 5-10 vols. of water, and the oil which separated, washed with 5% soln. of NaHCO_3 in water, gave 75-80 g. cryst. AcO_2Bz (purity 98%).~~

WILLIAMS, RICHARD

✓ Synthesis of some ethers of saligenin. Richard Chrom-
ček (Výzkumný ústav synth. pryskyřic, Pardubice, Czech.).
Chem. Listy 49, 1851-5 (1955).—The reaction of 3,5,2-
Br₃(HO)C₆H₃CH₂Br (I) with alcs. in the presence of BaCO₃
gave 3,5,2-Br₃(HO)C₆H₃CH₂OR (II) which yielded the ap-
propriate saligenin ethers (III) with H over Raney Ni in the
presence of NaOH. III are distillable in a good vacuum but
decomp. on heating at higher temps. Brominating 50 g.
o-MeC₆H₄OH at 118°, removing the excess Br and HBr by a
stream of N, dissolving the crude product in 60 ml. C₆H₆ and
triturating the crystals with 100 ml. petr. ether gave 100.8 g.
I, m. 118-19°. Refluxing 6.9 g. I with 100 ml. of an anhyd.
alc. in an oil bath, adding portionwise 2 g. BaCO₃ to the
mixt. during the 2nd half of the heating time, refluxing the
neutralized mixt. 3 hrs. longer, filtering off the insol. por-
tions, washing them with Et₂O, dilg. the filtrate with 150
ml. Et₂O, evapg. the solvents *in vacuo* at 60°, dissolving the
residue in 80 ml. petr. ether, removing the eventually de-
posited crystals of dibromosaligenin, evapg. the filtrate, and
distg. the residue at less than 0.05 mm. gave II [R, time of
refluxing in hrs., bath temp., yield (in % of the crude and
distd. products, b.p./mm., n_D²⁰, and m.p. of the deriv. (from
EtOH)]: Me, 8, 100°, 98, 90, 98-100.5°/0.03, 1.6040,
(benzoate, 93-4°; p-nitrobenzoate, 126.5°); Et, 8, 100°, 80,
72, 105-6°/0.02, 1.5895 (p-nitrobenzoate, 113.5-14°); Pr.

(cont.)

Synthesis of ethers

8, 110°, 89, 60, 123-4°/0.05, 1.5772 (*p*-nitrobenzoate, 66.5-7.6°); *iso*-Pr, 4.6, 104°, 76, 60, 105-8°/0.02, 1.5785 (*p*-nitrobenzoate, 90-90.5°); Bu, 26, 142°, 95, 85, 115-18°/0.02, 1.5625 (*3,5*-dinitrobenzoate, 109.5-10° (from Me₂CO, MeOH, ligroine)); *tert*-Bu, 8, 100°, 90, 74, 111-12°/0.02, m. 29-31° (*p*-nitrobenzoate, m. 70-80.5°). II (0.01 mole) hydrogenated 15-20 min. with an equal wt. of Raney Ni in the presence of 8 ml. 10% NaOH in MeOH at 17-20°, the catalyst filtered off, washed with MeOH, 20 ml. aq. 10% NaOH, and 50 ml. H₂O, the filtrate satd. with CO₂ at 20°, the mixt. extd. with Et₂O, the Et₂O evapd. *in vacuo*, and the residue distd. at a temp. below 100° gave III (R, % yield, b.p./mm., *n*_D²⁰, and m.p. of *3,5*-dinitrobenzoate given): Me, 48, 66°/2.1, 1.5345, 84.5-5.5° (from Me₂CO-EtOH); Et, 71, 69-70°/1.7, 1.5208, 85° (from EtOH); Pr, 72, 55°/0.2, 1.5110, 72-2.5° (from MeOH); *iso*-Pr, 62, 51-3°/0.3, 1.5090, 80° (from MeOH); Bu, 74, 55-7°/0.02, 1.5067, 64.5° (from MeOH); *tert*-Bu (by hydrogenation in EtOH), 65, 50-2°/0.02, 1.5050, 89.5-90° (from MeOH).
M. Hudlický

2
2

(U), #12 1.4940. II (7.72 g) was removed by standing with

CHROMECEK, R.

Preparation of ion exchange resins by pearl polycondensation.

p. 514 (Chemicky Prumysl. Vol. 7, no. 9, Sept. 1957, Praha, Czechoslovakia)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

CHROMECEK, R.

"Synthesis of some saligrenin ethers. II Butyl ether and amyl ether.
In German."

p. 328 (COLLECTION OF CZECHOSLOVAK CHEMICAL COMMUNICATIONS. SBORNIK
CHECKSHOSOLVATSKIKH KHMICHESKIKH RABOT. -- Praha, Czechoslovakia.)
Vol. 22, No. 1, Feb., 1957

SO:: Monthly Index of East European Accession (EEAI) LC, Vol. 7, No. 5, May 1958

CHROMECK, RICHARD

Distr: 4E3d/4E2c(j)

✓ Isolation and purification of *p*-*tert*-butylphenol. Richard
Chromček, Czech. 88,410, Jan. 15, 1959. Steam-distg.
at 140° crude mixt. obtained by Friedel-Crafts reaction from
3871 g. *tert*-BuCl, 3566 g. PhOH, and 39 g. anhyd. AlCl₃,
gives 24 g. title compd., m. 95-6°, and 4625 g. product, m.
98-90°. L. J. Urbánek

2
1-Je9 (NB)

Z/009/60/000/01/035/038
E142/E235

AUTHORS: Lešek, F., Sytař, M and Chroměček, R 1

TITLE: The Preparation of Ion Exchange Resins by Pearl
Polycondensation - Relation Between the Basic Hydrodynamic
Parameters and the Size of the Apparatus

PERIODICAL: Chemický průmysl, 1960, Nr 1, pp 50-53

ABSTRACT: The authors investigated conditions for the pearl
polycondensation of the ion exchange systems FN, MFD
and L, and derived as first approximation the rule of
the required number of rotations of the agitator. The
method of the experiment was described in an earlier
publication (Ref 10). The same type of reactor and
agitator (Fig 1) was used for all experiments as well
as the same suspension stabiliser; only in the case of
the cation exchange resin FN the granules were homogenised ✓
before pouring into an inert medium as basic components
of this exchange resin are viscous. The dependance of
the basic parameters on the size of the apparatus, i.e.
on the diameter of the granules, their distribution and
temperature conditions were investigated for the three
above-mentioned ion exchange resins and for a styrene-
butadiene copolymer. The capacity of the reactor varied

Card 1/2

Z/009/60/000/01/035/038
E142/E235

The Preparation of Ion Exchange Resins by Pearl Polycondensation -
Relation Between the Basic Hydrodynamic Parameters and the Size of
the Apparatus

between 350 litre and 1 200 litre but the ratio of the agitator to the reactor remained constant. Experimental results show that a constant value of the Froude number should be maintained for mixing systems with a "vortex" motion of the liquid mixture. The initial value should be verified in a reactor with a minimal diameter of 300 mm. A more satisfactory distribution of the granules is obtained in larger apparatus. Temperature conditions during polycondensation can be adjusted by decreasing the temperature and extending the reaction time. These rules are not applicable in general, but give useful indications for the regulation of suspension polycondensation reactions. There are 6 figures and 13 references, 8 of which are English and 5 Czech.

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AUTHORS: Karel Dušek and Richard Chromáček

TITLE: Chemical Resistance of Strongly Acidic Cationic
Exchange Resins¹

PERIODICAL: Chemický Průmysl, 1960, Vol 10, Nr 5, pp 267-273

ABSTRACT: The effects of different oxidizing agents such as hydrogen peroxide, nitric acid, chromic acid, potassium permanganate and chlorine water on several cation exchangers is studied. The following types of cation exchange resins are included in the investigation:

1) Katex S (Czechoslovakia) Sulphonated polystyrene. Prototype of polymeric exchangers.

2) Katex FN (Czechoslovakia) Polycondensation product of phenol-sulphonic and beta-naphthalene sulphonic acid with formaldehyde. Prototype of polycondensation products, as all the following compounds are of the same type.

3) Wolfatit F (Germany). Polycondensation product of benzaldehyde disulphonic acid and phenol with formaldehyde.

4) Wolfatit P (Germany). Polycondensation product from phenol, sodium bisulphate and phenol, followed by sulphonation.

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Chemical Resistance of Strongly Acidic Cationic Exchange Resins

- 5) Katex F Extra (Czechoslovakia). Polycondensation product from phenol, sodium bisulphite and formaldehyde.
 - 6) KU-IG (USSR). Polycondensation product of paraphenol sulphonic acid and formaldehyde, followed by sulphonation.
 - 7) Na (Czechoslovakia). Polycondensation product from naphthalene-sulphonic acid, and formaldehyde.
 - 8) Np (Czechoslovakia). Polycondensation product from naphthalene-sulphonic acid and formaldehyde.
- Effect of Hydrogen Peroxide. Results are tabulated, indicating that 3% hydrogen peroxide solution will attack already in 9 cycles the majority of the exchange resins of the polycondensation type. Katex S and Wolfatit P proved stable; least stability is shown by N and Katex FN. The degradation is catalysed by metallic ions. Both ferrous and ferric ions led to a rapid degradation of the exchangers. It is held by the authors that the mode of degradation is the severing of the methylene bridge.
- Effect of Nitric Acid. Katex F proved completely stable. Katex F Extra and the two naphthalene-sulphonic acids proved almost equivalent. Wolfatit P had poor resistance.

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Chemical Resistance of Strongly Acidic Cationic Exchange Resins

It is postulated that in some cases nitration of the ring may take place.

Action of Chromic Acid. All exchange resins with the exception of Katex S are completely degraded. Similar experiments are described by Raymond L. Costa, Industrial and Engineering Chemistry, Vol 42, 1950, pp 309-311. Effect of Potassium Permanganate. Katex S is practically destroyed after the second cycle and Katex N already destroyed during first cycle. Katex F Extra and Wolfatit P showed comparatively good stability. ✓

Action of Chlorine Water. It is interesting to note that Na showed a considerably better stability than the β isomer which is already degraded during the first cycle. It is suggested that the sulphonic acid groups activate the bonds towards oxidizing agents and that the mechanism of breakdown is fission of the methylene bond. There are 8 tables and 21 references, of which 14 are English, 3 German, 3 Soviet and 1 Czech.

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Chemical Resistance of Strongly Acidic Cationic Exchange Resins
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CHROMECEK, Richard, inz.

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Tech praca 14 no.2:Unpaged inserted between pages 148-149 F '62.

1. Spolek pro chemickou a hutni výrobu, n.p., Usti nad Labem.